

## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

#### NOTICE OF ALLOWANCE AND FEE(S) DUE

570

7590

02/20/2003

AKIN GUMP STRAUSS HAUER & FELD L.L.P. ONE COMMERCE SQUARE 2005 MARKET STREET, SUITE 2200 PHILADELPHIA, PA 19103-7013 EXAMINER

MCNEIL, JENNIFER C

ART UNIT CLASS-SUBCLASS

1775 428-697000

DATE MAILED: 02/20/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/437,948	11/10/1999	NANNING J. ARFSTEN	275-3US	8672

TITLE OF INVENTION: NIOBIUM OXIDE-BASED LAYERS FOR THIN FILM OPTICAL COATINGS AND PROCESSES FOR PRODUCING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$650	\$0	\$650	05/20/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status.
   See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

#### Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

**Commissioner for Patents** Washington, D.C. 20231 (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block I)

7590

02/20/2003

AKIN GUMP STRAUSS HAUER & FELD L.L.P. ONE COMMERCE SQUARE 2005 MARKET STREET, SUITE 2200 PHILADELPHIA, PA 19103-7013

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

	 	 	_
(Depositor's name)	 _		
(Signature)			
(Date)		 	
	 	 	_

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/437 948	11/10/1999	NANNING J. ARFSTEN	275-311S	8672

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nonprovisional	YES	\$650	\$0	\$650	05/20/2003
EXAMI MCNEIL, JE		ART UNIT 0	CLASS-SUBCLASS 428-697000		
CFR 1.363).  ☐ Change of correspond Address form PTO/SB/1	ence address or indication of " ence address (or Change of (22) attached. ion (or "Fee Address" Indicator more recent) attached. Us	Correspondence the correspondence or sir att att att att att at a correspondence of a Customer or sir att att att att att att att att att at	For printing on the patent from the names of up to 3 registered agents OR, alternatively, (2) gle firm (having as a memborney or agent) and the name pristered patent attorneys or againsted, no name will be printed.	patent attorneys the name of a per a registered nes of up to 2	

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

(ii) in the circumstance	(=):1=:1== (=:1		,	
Please check the appropriate assignee category or cate	egories (will not be printed on the patent)	🔾 individual	corporation or other private group entity	/ 🖸 government
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):			-
☐ Issue Fee	☐ A check in the amount	of the fee(s) is en	nclosed.	
☐ Publication Fee	Payment by credit care	I. Form PTO-2038	8 is attached.	
☐ Advance Order - # of Copies	O The Commissioner is Deposit Account Number	nereby authorized r	by charge the required fee(s), or credit any of this form).	overpayment, to
Commissioner for Patents is requested to apply the Iss	sue Fee and Publication Fee (if any) or to re	-apply any previo	ously paid issue fee to the application identified	ied above.
(Authorized Signature)	(Date)			<del></del>
NOTE; The Issue Fee and Publication Fee (if req other than the applicant; a registered attorney or interest as shown by the records of the United States	agent; or the assignee or other party in			
This collection of information is required by 37 C obtain or retain a benefit by the public which is to application. Confidentiality is governed by 35 U.S.C estimated to take 12 minutes to complete, including completed application form to the USPTO. Time case. Any comments on the amount of time yo suggestions for reducing this burden, should be selected and Trademark Office, U.S. Department of NOT SEND FEES OR COMPLETED FORM Commissioner for Patents, Washington, DC 20231.	o file (and by the USPTO to process) and C. 122 and 37 CFR 1.14. This collection is gathering, preparing, and submitting the will vary depending upon the individual urequire to complete this form and/or to the Chief Information Officer, U.S. Commerce, Washington, D.C. 20231. DO			
Under the Paperwork Reduction Act of 1995, no collection of information unless it displays a valid O	o persons are required to respond to a MB control number.			



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570	7590	02/20/2003		EXAMINI	ER	
		SS HAUER & FELD	L.L.P.	MCNEIL, JENNIFER C		
ONE COMMI 2005 MARKE	•	r, SUITE 2200		ART UNIT	PAPER NUMBER	
PHILADELPH		0103-7013		1775		
UNITED STA	11E5			DATE MAILED: 02/20/2003		

# Determination of Patent Term Extension under 35 U.S.C. 154 (b) (application filed after June 7, 1995 but prior to May 29, 2000)

The patent term extension is 0 days. Any patent to issue from the above identified application will include an indication of the 0 day extension on the front page.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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AKIN GUMP	STRAUS	SS HAUER & FELD	MCNEIL, JENNIFER C		
ONE COMME 2005 MARKE	•			ART UNIT	PAPER NUMBER
PHILADELPH UNITED STAT	•	103-7013		1775	
UNITEDSIA	11.0			DATE MAILED: 02/20/2003	

## Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

•			AS
	Application N .	Applicant(s)	
	09/437,948	ARFSTEN ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Jennifer McNeil	1775	
The MAILING DATE of this communication at All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATEN of the Office or upon petition by the applicant. See 37 CFR 1	S IS (OR REMAINS) CLOSED in 85) or other appropriate comm IT RIGHTS. This application is:	n this application. If not includ unication will be mailed in due	led course, <b>THIS</b>
<ol> <li>This communication is responsive to <u>01/03/03</u>.</li> <li>The allowed claim(s) is/are <u>1,2,11,12,19,20,22 and 23</u></li> <li>The drawings filed on are accepted by the Example Acknowledgment is made of a claim for foreign priority a)</li></ol>	miner.	r (f).	
1.    Certified copies of the priority documents	have been received.		
2.   Certified copies of the priority documents	have been received in Application	on No	
<ol><li>Copies of the certified copies of the priority</li></ol>	y documents have been receive	d in this national stage applica	ation from the
International Bureau (PCT Rule 17.2(a)	)).		
* Certified copies not received:  5.  Acknowledgment is made of a claim for domestic prior (a) The translation of the foreign language provision (b) Acknowledgment is made of a claim for domestic prior Acknowledgment is made of a claim for domestic prior Applicant has THREE MONTHS FROM THE "MAILING DATION Papelow. Failure to timely comply will result in ABANDONMEN'  7.  A SUBSTITUTE OATH OR DECLARATION must be supported by the Notice of Drafts (a) CORRECTED DRAWINGS must be submitted.  (a) CORRECTED DRAWINGS must be submitted.  (b) Including changes required by the Notice of Drafts (b) Including changes required by the proposed draw (c) Including changes required by the attached Exameldentifying indicia such as the application number (see 37 C)	nal application has been received ity under 35 U.S.C. §§ 120 and/E" of this communication to file at T of this application. THIS THE submitted. Note the attached EX reason(s) why the oath or declar sperson's Patent Drawing Reviewing correction filed, which inner's Amendment / Comment of FR 1.84(c)) should be written on the sity of the special specia	ed. or 121. a reply complying with the requ REE-MONTH PERIOD IS NOT  AMINER'S AMENDMENT or I  ration is deficient.  ew ( PTO-948) attached  th has been approved by the I  or in the Office action of Paper	Examiner.  No
of each sheet. The drawings should be filed as a separate p  9. DEPOSIT OF and/or INFORMATION about the dattached Examiner's comment regarding REQUIREMENT FO	aper with a transmittal letter addreposit of BIOLOGICAL MAT	essed to the Official Draftspers  ERIAL must be submitted.	on.
Attachment(s)			
Notice of References Cited (PTO-892)  Notice of Draftperson's Patent Drawing Review (PTO-94)  Information Disclosure Statements (PTO-1449), Paper N  Examiner's Comment Regarding Requirement for Depos of Biological Material	8) 4☐ Interview lo 6☐ Examino	of Informal Patent Application ( w Summary (PTO-413), Paper er's Amendment/Comment er's Statement of Reasons for	No
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Page 2

**REASONS FOR ALLOWANCE** 

The following is an examiner's statement of reasons for allowance: The prior art of record does

not teach or render obvious a coated substrate having a thin film optical coating, the coating having a

layer comprising sol-gel derived niobium oxide, wherein the layer is capable of providing an index of

refraction of at least about 1.90.

Applicant's amendment of January 3, 2003 in which the priority for the application is altered,

obviates the rejection over US 6,410,173.

Any comments considered necessary by applicant must be submitted no later than the payment

of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such

submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Jennifer McNeil whose telephone number is 703-305-0553. The examiner can

normally be reached on Monday through Friday, 9:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Deborah Jones can be reached on 703-308-3822. The fax phone numbers for the organization where this

application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for

After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should

be directed to the receptionist whose telephone number is 703-308-0661.

Jennifer McNeil Examiner

Art Unit 1775

February 12, 2003

DEBORAN JONES SUPERVISORY PATENT EXAMINER